

MIR MSL-KV. KNYA, 4U.A

L1473-65 SW(j)/S.i(m)/SPF(o)/C.P(n)-2/P.M.(t)/P.D.(n) Pre-Pr./Pr./Pr.
IJP(o)/CPL/Pa-+/-S.(g.)/KMK(a.)/...-S/-S(p.-/-S.L.R/-S.P.C.) J.S./A./S.

ACCESSION NR AM4049552

BOOK EXPLOITATION

5/

871

Xenifanova, V. I. (Candidate of Technical Sciences); Kozel'rod, L. S. (Doctor of Technical Sciences); Gorokhov, V. S. (Engineer); Lyakhno, N. N. (Candidate of Chemical Sciences); Chernyshchev, B. A. (Engineer); Gruchevskiy, V. M. (Engineer); Antipenkov, V. M. (Engineer); Gil'min, I. I. (Engineer); Miroslavskaya, IU. A. (Engineer); Sorgoyev, S. I. (Candidate of Technical Sciences); Denishchuk, B. V. (Engineer); Kanner, M. G. (Candidate of Technical Sciences); Vasyunina, G. V. (Candidate of Technical Sciences); Glabova, L. I. (Candidate of Technical Sciences); Denisenko, O. F. (Candidate of Technical Sciences); Katina, N. F. (Candidate of Technical Sciences); Morozov, A. I. (Candidate of Technical Sciences); Mart'yushov, B. I. (Engineer)

Purifying air by deep cooling; technology and apparatus, in two volumes. V. 2: Industrial plants, machinery and accessory equipment (Razdeleniye vozdukh metodom glubokogo okhlazhdeniya; tekhnologiya i oborudovaniye, v dvukh tomakh. t. 2: Promy'shleyny'e ustroystva, mashinnoye i vopomogatel'noye oborudovaniye), Moscow, Izd-vo "Mashinostroyeniye", 1964, 591 p. illus., bibliogr., index. Errata slip inserted. 3,000 copies printed.

TOPIC TAGS: oxygen generation, argon, crypton, neon, xenon, centrifugal
Card 1/3

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ACCESSION NR AH4049552

compressor, pump, liquid oxygen, liquid nitrogen, air purification

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oxygen -- 420
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SUB CODE:GC

SUBMITTED: 08Feb64

NR REF 50V: 060

OTHER: 029

Card 3/3

L 16333-65 'EAC(j)/EWT(n)/EWP(w)/EPP(c)/EPR/EWP(k)/EWP(b)/EWP(t) - Pt-l/Pr-l/Ps-l'
IJP(c)/RPL EM/HW/JW/JD
ACCESSION NR: AP4049177

8/0314/84/000/005/0010/0011

AUTHOR: Vasil'yeva, Ye. I., Miroslavskaya, Yu. A.

B

TITLE: The AGU-6 automobile-mounted gasification unit

SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 5, 1964, 10-11

TOPIC TAGS: Liquid oxygen, liquid nitrogen, liquid oxygen gasification, liquid nitrogen gasification

ABSTRACT: Gasification units with pumps, usable for the gasification of liquid gas, are being used more and more instead of warm and cold gasification units. The liquid gas pump together with an evaporator working at delivery pressure form the unit for the gasification of liquid gases. The gasification process is continuous, leading to lower gas losses and improved safety features. The direct delivery of liquid gas to the consumer followed by gasification has many advantages in comparison with delivery of gas in high-pressure steel bottles. At present, several purification units are in operation for nitrogen and oxygen with a capacity of up to 500 liters/hr. and pressures of 20, 165 and 250 atm. The mobile oxygen gasification unit AGU-6 (see Fig. 1 of the Enclosure) is designed for oxygen delivery to flame drilling rigs for open-cut mining and may work either at 310-370 or 600-700 kg/hr. The gaseous oxygen from the evaporator is

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L 16333-65

ACCESSION NR: AP4049177

delivered either at 25 or 40 kg/cm². The required power is 49 or 90.4 kW. The liquid oxygen is delivered at 0.6-0.8 atm. into the pump and then into the evaporator. After evaporation, the gas at 20-70C passes through the delivery line and return valve to the consumer. A safety valve, pressure relief valve and pressure gauge are installed in the line. The liquid oxygen tank TRZhK-5 with a volume of 6,000 kg is used for storage and transportation. It consists of a double-walled cylindrical vessel. The inner shell is made of stainless steel, and the outer of an aluminum alloy. The tank has powder-vacuum insulation: the space between the shells is filled with aerogel (VTU 186-60) and a vacuum of 0.5 mm Hg. This insulation prevents evaporation during storage and transportation. Losses of liquid oxygen are not over 42 kg/day at 20C (0.7% per 24 hrs. of the entire tank volume). The evaporator is a single-line coil of copper tubes 28 mm in diameter enclosed in an aluminum housing filled with water. The water temperature is regulated automatically at 70-60C. All equipment is mounted in a van on a MAZ-5245 semi-trailer. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00

NO. REF. SERV: 000

SUB CODE: IE, FP

ENCL: 01

OTHER: 000

Card 2/3

L-16333-65
ACCESSION NR: AP4049177

ENCLOSURE: 01

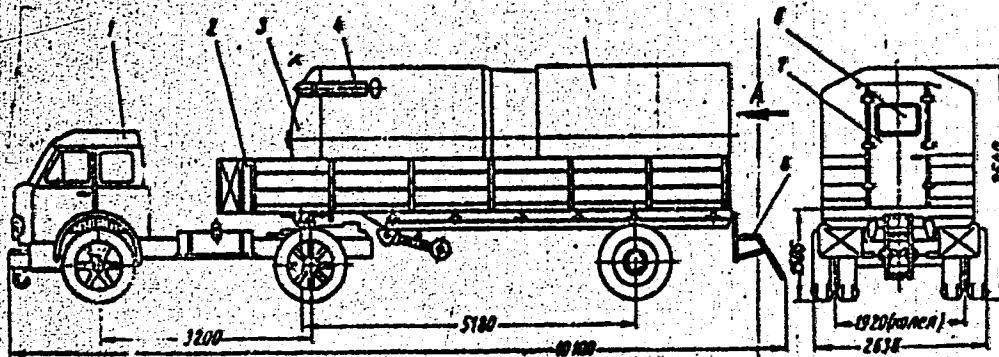


Fig. 1. AGU-6 Automobile-Mounted Gasification Unit: 1-MAZ-504 tractor; 2-MAZ-5245 semi-trailer, 3-tank; 4-70 mm diam. hose; 5-van; 6-window; 7-door; 8-tri-gate ladder.

Pressure Vessel

Card 3/3

MIROSLAVSKAYA, Yu.A., inzh.

Stationary gasification unit with a pump. Trudy VNIKIMASH
no.10:87-95 '65. (MIRA 18:9)

MIROTVORSKAYA, G.N.

Neuropsychic disorders in the impactation of the cerebellum in
the foramen occipitale magnum. Trudy 1-go MM 34:3.2-351 1962.

Capacity of the brain for swelling in vitro in impactation of
the cerebellum in the foramen occipitale magnum. Trudy 1-go MM 34:3-351 1962.

1. Kafedra psichiatrii (zav. - zasluzhennyy deyatel' nauk
prof. V.M. Banshchikov) 1-go Moskovskogo ordena Leningra medici-
tsinskogo instituta imeni Sechenova.

MIROTVCRTSEV, Yu.K., polkovnik meditsinskoy sluzhby v otstavke;
TRUBNIKOV, A.I., polkovnik meditsinskoy sluzhby

Use of exercise therapy in the compound treatment of patients
with burns. Voen.-med. zhur. no.3:43-46 '65.
(MirA iR:11)

MIROSLAVTSEV, Ye.N.

Stability of a nonlinear system. [Trudy] MVTU no.88:193-
198 '58. (MIRA 12:4)
(Automatic control)

MIROSLAWSKI, W.

MIROSLAWSKI, W. Electrization of fibers and its prevention. p. 73

Vol. 10, no. 2, 1956
PRZEMYSŁ WŁOKIENNICZY
TECHNOLOGY
Łódz, Poland

So: East European Accession Vol. 6, no. 2, 1957

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3"

MAY - MAY 2000

1900. Microtis, L. L. T. replaced with the name *Microtis* *leucurus*, as proposed by Dr. Lucy C. May, Trinity Inkansky City, Mo., testifying before the Missouri State Legislature, Jan. 1, 1901.

For example, the following sequence of events occurred in one study:

MIROVIN, Lev Borisovich; BRONSHTEYN, L.A., dots., kand. tekhn. nauk, red.; KOMAROVA, M.V., red.; TUPITSYNA, L.A., red. izd-va; SHVETSOV, S.V., tekhr. red.

[Special-purpose rolling stock in automotive transportation] Spetsializirovannyi podvizhnoi sostav avtomobil'nogo transporta. [n.p.] Kosvuzizdat, 1963. 127 p.
(MIRA 17:3)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3"

MIROTOIU, St., ing.; CIOBOTARU, L., Ing.; MORARU, Nicolae, Ing.; CIMPAN, I.; PARFENE, D., Ing. sef

The movement of inventions and innovations in Rumania. Probleme
econ 16 no.12:152-153 D '63.

1. Director, Intreprinderea forestiera Radauti (for Mirotoiu).
2. Sef serviciu, Intreprinderea forestiera Radauti (for Ciobotaru).
3. Director "S.A. "Z.T.E. Independenta-Sibiu (for Moraru).
4. Director, intreprinderea metalurgica de industrie locala Radauti (for Cimpan).
Radauti (for Parfene).

MIROTVORSKAYA, G.N. (Moskva)

Morphological changes in the brain following impaction of
the cerebellum into the foramen magnum. Arkh. Pat. 25 no.6:
62-67 '63.
(MIRA 17:1)

1. Iz kafedry psichiatrii (zav. - prof. V.M. Banshchikov)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni
Sechenova.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3"

MIROTVORSI AYA, M.K.

Effect of forest belts on meteorological elements in southern
Ukraine. Trudy Ukr.NIGMI no.4:59-61 '55.
(Ukraine-Windbreaks, shelterbelts, etc)
(Forest influences.)

MIROTVORSKAYA, N.K.

Climatic characteristics of showers in Odessa. Trudy OGMI no. 23:
23-29 'ol. (MIRA 16:6)
(Odessa—Rain and rainfall)

MIROTVORAYA, YE. A.

FA/7T88

USSR/Medicine - Tularmia
Medicine - Nervous System

Jan 1948

"Clinical Aspects or Variations in the Nervous System
in Tularemia," Ye. A. Mirotvoraya, Clinic Nerve Dis-
eases, Kursk Med Inst., 4 pp

"Bervoirat i Psichiatr" Vol XVII, No 1

Nervous system acutely affected during early stages
of tularemia. Also during early stages possible to
observe development of polyneuritis, polyradiculone-
ritis, and arachnoiditis. Nervous system becomes per-
manently affected as result of tularemia. Psychic
trauma, and several other factors can cause changes
in the nervous system. Submitted for publication,

USSR/Medicine - Tularmia (Contd)

47T88
Jan 1948

21 Jun 1947. Director of Kursk Medical Institute:
Dr. N. I. Golik.

47T88

MIROTVORSKAYA, Ye.A.

Pathology of human nervous system in tularemia. Nevropat.psichiat.,
Moskva 19 no.2:40-45 Mr-Ap '50. (CML 19:3)

1. Of the Clinic for Nervous Diseases (Director -- Prof. N.I.Golik),
Kursk State Medical Institute (Director -- Prof. P.D.Mal'tsev).

MIROTVORSKAYA, Ye.A.

Intercurrent infections and chilling as factors in the exacerbations
and recurrences of tularemia. Sbor. trud. Kursk. gos. med. inst.
no.13:223-225 '58. (MIRA 14:3)

1. Iz kliniki nervnykh bolezney (zav. - prof. N.I.Golik) Kurskogo
gosudarstvennogo meditsinskogo instituta.
(TULAREMIA)

USSR/Medicine - Anthrax
Medicine - Absinthe

"Results of Research of the Properties of
of Absinthe on Stimulating Effect of Medicine," by A.
A. Mirovorskij, 4 p.

"Izvestiya Turkmeneskogo Filiala Akademii Nauk SSSR"
No 7/4

Published in April 1941, Turkmen Academy of Sciences
imeni M. I. Keltin. Due to the fact that
absinthe, depending on climatic conditions, in
particular, it is not possible to draw any
conclusions regarding the effect of absinthe on
climatological or soil factors, it is necessary
further investigation on a more extensive
extensive basis.

MIROTVORSKIY, S.A., inzhener.

The Liuberetskii factory for reinforced concrete products. Gor.khoz.Mosk. 27
no.11:8-11 N '53). (MIRA 6:11)
(Precast concrete construction)

MIROTVORSKIY, S.A.

GUTSKOV, Ye.V., inzhener; MIROTVORSKIY, S.A., inzhener; RATTI, E.G.,
kandidat tekhnicheskikh nauk.

Application of conveyor system to the production of large reinforced
concrete construction elements. Stroi.prom. 32 no.8:2-11 Ag '54.

1. Glavzhelezobeton (for Gutskov). 2. Lyuberetskiy zavod (for Miro-
tvorskiy). 3. VNIIzhelezobeton (for Ratti).
(Reinforced concrete) (Building materials industry)

MIROTVORSKIY,S., inzhener, laureat Stalinskoy premii

Improve the technology and equipment of precast concrete conveyor belt factories. Stroi.mat., izdel.i konstr. 1 no.7:4-7 Jl'55.
(MLRA 8:11)

1. Direktor Lyuberetskogo zavoda zhelezobetonnykh izdeliy no.2,
(Precast concrete)

MIROTVORSKIY, S.} GUTSKOV, Ye.

Industrial production of foam concrete products. Stroi.mat. 3
no.8:1'-19 Ag '57. (MLRA 10:10)

1. Direktor Moskovskogo kombinata zhelezobetonnykh konstruktsii
No.2 (for Mirotvorskiy). 2. Glavnyy inzhener Moskovskogo kombinata
zhelezobetonnykh konstruktsii No.2 (for Gubkov).
(Lightweight concrete) (Concrete blocks)

D'YACHENKO, Petr Yakovlevich; MIROTVORSKIY, Sergey Aleksandrovich;
TERUKHIMOVICH, P.L., nauchnyy red.; MEDOIROVA, T.N., red.izd-va;
OLIZAROVA, I.L., red.izd-va; TEMKINA, Ye.L., tekhn.red.

[Prefabrication of precast reinforced concrete] Zavodskoe izgotovlenie sbornogo zhelezobetona. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materiamam, 1960. 281 p.

(MIRA 13:12)

(Precast concrete)

SCV/100-39-3-1 /43

AUTHORS

Lozinskii, N.G. and Miroshnitskii, V.S. (Moscow)

TITLE

Some Rules for the Change in Micro-hardness of Technical Iron in Heating over a Wide Range of Temperature and Extension in a Vacuum

RECDICATE: Izvestiya Akademii Nauk SSSR, Otdelenie Tekhnicheskikh nauk Metallofizika i Teplofizika 1957, No. 3, pp. 32-61 (USSR)

ABSTRACT:

The authors developed the type IMASn-1 testing machine at the Institut mashinovedeniya (Machinery Institute) of SSSR (AS USSR) in 1954. It is intended for the measurement of alloy micro-hardness in a vacuum at temperatures from room to 1300°C with tensile stresses up to 60 kg/mm² and indenter loads of 2 to 50 g. The construction of the machine is shown in Fig 1; the left-hand diagram shows the machine ready for selecting the test spot or for measuring the indentation; the right-hand ready for indentation. The figure does not include the indenter position adjusting screws. A general view is given in Fig 4 to 6 and the circuit in Fig 5. One face of the test piece (Fig 2) is polished; its overall length is 70 mm. The indenter (Fig 3) is fitted with a diamond or artificial sapphire tip, 2 mm

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OV/180-59-3-10/43

Some Rules for the Change in Micro-Hardness of Technical Iron on
Heating over a Wide Range of Temperature and Extension in a Vacuum

long and 3 mm in diameter. The diamond cannot be used with carbide-forming alloys and temperatures over 900°C. The indentation is photographed with a type MFN-2 camera and measured with a type AM9-2 or AM9-3 ocular micrometer. Heating is by direct passage of an electric current and temperature is measured with a thermo-couple welded to the middle part of the test piece and a type EPD-12 electronic potentiometer. Evacuation is effected by a type ISVL-100 oil-vapour pump backed by a FVN-20 rotary pump, the vacuum being measured with a type VIT-1 gauge. 10 to 20 indentations were made per test piece which had before the test been annealed in vacuum at 950°C (for 1 hour) to remove surface work hardening produced by the polishing. As an example the authors gave the curve of micro-hardness against temperature (Fig. 7) obtained for technical iron with indenter loads of 50 g applied for 1 sec in a residual pressure of 10^{-5} mm Hg. The curve shows a steady fall from 0 to 200 and about 320 to 670. A maximum occurs at about 300°C and there are smaller peaks

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SCV/180-59-3-16/43

Some Rules for the Change in Micro-Hardness of Technical Iron on Heating over a Wide Range of Temperature and Extension in a Vacuum

at 910 and 1020. Fig 6 shows corresponding photomicrographs of the iron surface. Another series of experiments was carried out to find the influence of tensile stress on micro-hardness of iron at temperatures up to 1000°C. Ten indentations were made at each of the stresses chosen, at a given temperature separate experiments being done at different temperatures. The results (Fig 9) show that micro-hardness has a minimum at definite stress values which decrease as the temperature rises. The rise in micro-hardness at higher stress values is considerable: the authors attribute these increases to work hardening due to plastic deformation. The authors hope to extend their work to the influence of prolonged loading over a wide temperature range on strength values as estimated from micro-hardness. There are 9 figures and 10 references, 7 of which are Soviet, 2 English and 1 German.

ASSOCIATION: Institut mashinovedeniya AN SSSR (Institute of Machine
Card 3/4

SOV/100-29-3-10/43

Some Rules for the Change in Micro-Hardness of Technical Iron on
Heating over a Wide Range of Temperature and Extension in a Vacuum

Technology, Academy of Sciences, USSR)

SUBMITTED: April 16, 1959

Card 4/4

L 21053-65 EWD(j)/EWT(m)/EPP(c)/BPR/EWP(t)/ENP(b) Pr-Li/Ps-Li/Pad IJP(c)/
SSD/AFWL/APETR JD/HM

ACCESSION NR: AP4046099

S/0126/64/018/003/0473/0475

28

27

AUTHOR: Antipova, Ye. I.; Lozinskij, M. G.; Mirotvorskij, V. S.

b

TITLE: Comments on the problem of the kinetics of recovery in recrystallization

SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 3, 1964, 473-476

18

TOPIC TAGS: recrystallization, hardness, reduction, nickel, workhardening

21

ABSTRACT: Technically pure Ni was reduced to 25% at room temperature, subjected to hardworking at 900C and another 25% reduction and subsequently water quenched. The recrystallization of Ni was characterized by an appreciable decrease in hardness with time and a high initial hardness of the recrystallized sections of the structure which also decreased as the holding period was extended. Specimens reduced at high temperatures and specimens annealed for 3 hours within the 500 to 900 C range were characterized by an analogous pattern of initial high hardness of the recrystallization section. Apparently, the new grains are subjected to the stresses which expand throughout the workhardened material

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L 21055-65

ACCESSION NR: AP4046099

although the level of internal stresses is considerably lower than in that workhardened part. With the formation of new grains, microhardness decreases in both the new and the workhardened grains. Deviations from the linear relationship observed in the recrystallized sections when recrystallization is slight and in non-crystallized sections when it is appreciable, are attributed to the base layer. With a base layer softer than the object of investigation, the hardness values are lower and with a harder base layer they are higher. This relationship may prevail in the beginning and towards the end of the process of recrystallization when small amounts of new grains and the remainders of non-crystallized old grains occur in the basic mass of the opposite structure. Orig. art. has: 4 figures.

ASSOCIATION: Institut mashinovedeniya (Institute of Machine Science)

SUBMITTED: 10Nov83

ENCL: 00

SUB CODE: MM

NO REF SOV: 001

OTHER: 000

Card 2/2

188260 1045 2808

26576
S/129/51/000/008/009/015
E073/E335

AUTHORS: Lozinskiy, M.G., Doctor of technical Sciences,
Zusmanovich, G.G. and Mirotvorskiy, V.S., Engineers

TITLE: Dependence of the Microhardness of wear-resistance
Coatings on Temperature

PERIODICAL: Metalovedeniye i tehnicheskaya obrabotka metallov,
1961, No. 8, pp. 57 - 63

TEXT: For evaluating the performance of the wear-resistant
coatings, it is useful to determine their microhardness at
elevated temperatures. A. Bremer ref. 1 - Journal of
Research, Nat. Bureau Standards, Vol. 66, No. 3, 1951 published
results on microhardness tests at 400°C in air in rt gas
carried out on chromium-platin coating loads of 30 - 100 g.

Apparatus was built in 1954 at the Institute of the authors
which enabled determining the microhardness of metals and
alloys at temperatures up to 1000°C in vacuum at loads of
5 - 100 g and tensile tests with stresses of 0 - 60 kg/mm².
The authors studied with this equipment the influence of
temperature on the microhardness of nickel-phosphor and of

Dependence of the ...

1176
8/1-9/61/000/000/009/015
4675/E535

chromium coatings using a load of 100 g. The coatings were produced on specimens of commercial iron HV 100 kg/mm². The nickel-phosphor coatings were deposited from a solution consisting of 21 g/l. of nickel chloride, 24 g/l. sodium hyperphosphate and 10 g/l. sodium acetate. The coatings contained about 9% phosphor and were 40 - 50 μ thick. The chromium coatings (35-40 μ thick) were deposited from a standard electrolyte at 55 °C, using a current density of 35 A/dm². The thickness of the coatings was more than 2.5 times the depth of the indentation at the maximum test temperature. The microhardness of the nickel-phosphor coatings was tested at elevated temperatures directly after the coatings were produced and after heating to 400 °C and holding them at that temperature for 1 hour, followed by cooling in air. Such a heat-treatment ensures better adhesion between the coating and the surface of the component and increases the hardness. The chromium coatings were not heated. The hot microhardness of specimens from

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Dependence of the

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S/129/61/000/008/009/015
E073/E335

the steel XBГ (KhVG) was tested after quenching and low-temperature tempering (IIRC 63-64). The obtained results enable comparing the temperature dependence of the hardness of this steel with that of the coatings. 15 indentations were made at each test temperature with a sapphire indenter (pyramid with an angle of 136°). The results, H_u , kg/mm² versus temperature, °C, are plotted in Fig. 1 (Curve 1 - nickel-phosphor coatings without heat-treatment; Curve 2 - nickel-phosphor coatings after heat-treatment at 400 °C for 1 hour; Curve 3 - chromium-plating; 4 - steel KhVG, IIRC 63). The results show that nickel-phosphor coatings have the highest hardness in the temperature range 150 - 350 °C and should be used for improving the resistance-to-wear of components operating at these temperatures. It is advisable to use chromium-plated or hardened steels for components operating at temperatures above 350 °C.

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Dependence of the

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S/129/61/000/008/009/015
E075/E335

There are 1 figure, 1 table and 6 references: 4 Soviet and 2 non-Soviet. The two English-language references quoted are: Ref. 1 (in text) and Ref. 3 - M. Hansen, Constitution of Binary Alloys, New York, 1958.

ASSOCIATIONS:

Institut mashinovedeniye AN SSSR (Institute of Machine Science of the AS USSR)
Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii sel'skogo khozyaystva (All-Union Scientific Research Institute for Mechanisation of Agriculture)

Card 4/5

S/126/62/014/006/005/02
E193/E363

AUTHORS: Lozinsky, M.M., Birovorskii, V.S. and
Kakhnstadt, A.V.

TITLE: A study of ageing of beryllium bronze

PERIODICAL: Fizika metallov i metallovedeniye, v. 14, no. 6,
1962, p. 34 - 42

TEXT: Microhardness measurements were used to study various aspects of ageing of 2.5 Cu-Bi alloys, which were given 24-hours treatment at 700°C, followed by water quenching, to ensure structural homogeneity of the experimental specimens. Ageing as well as hot-hardness measurements were carried out in vacuum. The investigation covered the following: determination of the temperature-dependence of microhardness of both solution-treated material and specimens aged for 1.5 hours at 350°C; comparison of microhardness of the alloy at various stages of ageing, both at the ageing temperature and after cooling to room temperature; comparison of the kinetics of ageing in the interior of the grains and in the grain-boundary regions. The results can be summarized as follows. 1) The microhardness of beryllium bronze

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5/125/62/614/066/007/-26

4115/2503

A study of aging

aled for 1.5 hours at 500°C increases slightly on heating, reaching a maximum value at about 550°C and decreasing rapidly above 600°C. The micronhardness of solution-treated specimens also increases on heating due to the decomposition of the solid solution but the values obtained at any given temperature are lower than those of the relatively aged material. 2) When the beryllium bronze is age-hardened at 550°C for 30 - 60 min, its maximum micronhardness at the aging temperature is the same as that measured (after aging) at room temperature. When the aging time exceeds 60 min the room-temperature microhardness of the alloy becomes lower than that measured at the aging temperature; the difference between the two values reaching about 10 kg/mm² for alloys aged for 90 min. 3) The micronhardness of solution-treated beryllium bronze is higher in the grain-boundary regions than in the interior of the grains. This effect is due to a higher concentration of solute in the grain-boundary regions where - probably - some precipitation-hardening takes place during quenching. 4) The grain-boundary region and the interior of the grains harden at different rates during aging. The interior of the grains hardens at a faster rate in the initial

Card 2/3

A study of ageing ...

S/126/62/014/006/005/020
E193/E383

stages of ageing. The microhardness of the grain-boundary zones and the interior of the grains is practically the same at the moment corresponding to maximum hardness; the decrease in hardness in the grain-boundary regions is much more pronounced under conditions of over-ageing. 5) After ageing for 10 min at 550 °C the microhardness of the γ -phase in the solution-treated alloy increases from the initial value of 360 kg/mm² to 640 kg/mm². 6) Ageing of beryllium bronze for critical applications should be carried out under conditions which ensure equal hardness at the grain boundaries and in the interior of the grains. The optimum ageing time at 550 °C is 1 hour. There are 7 figures and 2 tables.

ASSOCIATION: Institut mashinovedeniya (Institute of
Science of Machines)

SUBMITTED: December 27, 1961 (initially)
June 20, 1962 (after revision)

Card 3/3

L 11114-63

EWP(q)/EST(n)/EDS

AFFTC/ASD

JD/JT

S/0129/63/000/005/0094/0060

ACCESSION NR: AP3000491

58

56

AUTHOR: Lozinskiy, M. G.; Mirotvorskiy, V. S.; Antipova, Ye. I.TITLE: Effect of rolling conditions on recrystallization and heat resistance
of nickel

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 5, 1963, 54-60

TOPIC TAGS: nickel, thermomechanical treatment, recrystallization range, micro-hardness, heat resistance, rupture life, total elongation, deformation mechanism

ABSTRACT: The effect of thermomechanical treatment (TMT) on recrystallization and heat resistance in 99.5% pure Ni has been studied. Round bars, 16 mm in diameter and 160 mm long, were annealed at 1100°C for 1 hr, cooled to 900, 800, 700, 600, 500, 400, or 200, rolled at these temperatures with a reduction of 25%, and water quenched. The specimens were then subjected to recrystallization annealing for 1 hr in a vacuum at 500–900°C. Hardness tests and microscopic examination revealed that an increase in temperature of TMT increases the temperature of the beginning and end of recrystallization. For instance, in specimens rolled at room temperature recrystallization begins at approximately 575°C

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ACCESSION NR: AP3000491

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and is completed at approximately 650°C. Corresponding figures for specimens rolled at 900°C are approximately 660 and 740°C. The temperature interval between the beginning and end of recrystallization is not affected by the conditions of TMT and remains approximately 75°C for all conditions tested. The kinetics of recrystallization were studied at 600°C in a vacuum of 10^{-3} mm Hg. At this temperature a sharp decrease of microhardness begins after approximately 1 hr in all specimens rolled at 20–800°C. After 50 hr recrystallization was completed and microhardness dropped from the original 190–120 kg/mm² to approximately 70 kg/mm². In specimens rolled at 900°C the recrystallization proceeded at a much lower rate and was not completed even after annealing 100 hr, when microhardness dropped from approximately 120 kg/mm² to 80 kg/mm². The stress-rupture tests at 600°C under an initial stress of 10 kg/mm² showed that rolling at 20–900°C considerably improves heat resistance as compared with that of Ni annealed 1 hr at 1100°C. Specimens rolled at 20, 400, 800, and 900°C had the longest rupture life. Specimens rolled at 20 and 700–900°C had the lowest creep rate in the first-stage creep. The total elongation in stress-rupture tests, which does not exceed 3–4% for Ni annealed at 1100°C, varied in TMT specimens from 15% (rolled at 500°C) to 42% (rolled at 600 and 700°C). Microscopic examination revealed a considerable difference in the mechanism of deformations between fully

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annealed and thermomechanically treated Ni. In the former, microcracks began to form at the grain boundaries at the very beginning of the stress-rupture test without grain deformation, while in the latter, microcracks (also at grain boundaries) appeared only after completion of recrystallization. Recrystallization appears to delay both the generation and propagation of microcracks. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Institut mashinovedeniya GKAM pri Gosplane SSSR (Institute of the Science of Machines GKAM under the Gosplan SSSR)

SUBMITTED: 00

DATE ACQ: 03Jun63

ENCL: 00

SUB CODE: ML

NO REF Sov: 012

OTHEP: 002

Card 3/3

LOZINSKIY, M.G.; MIKOTVORSKIY, V.S.; RAKHSHTADT, A.G.

Effect of tensile stresses on the beryllium bronze aging process.
Fiz. met. i metalloved. 16 no. 3: 366-369 S '63. (MIRA 16:11)

1. Institut mashinovedeniya Akad. SSSR.

ANTONOVA, Ye.L.; VOLINOVICH, V.G.; MIRONOV, V.V.

Kinetics of softening during reorganization in P.v. melt
metallowed. ID no.3:473-475 S-14.

LOZINSKII, M.S.; MIROCHINSKY, V.A.

Precision of microhardness measurements. Sov. Pat. No. 2
894-896 '64.

I. Gosudarstvennyy nauchno-issledovatel'skii institut
mashinovedeniya.

IL1314-65 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(z)/EWP(k)/EWP(k)/EWP(b)/EWP(1)

ACC NR: AT6003652 JD/GS

SOURCE CODE: UR/000/65/000/000/0096/0112

AUTHORS: Lozinskiy, M. G.; Mirotvorskiy, V. S.

ORG: none

62
(B+1)

TITLE: Construction of devices and the precision of determining microhardness at high temperatures

SOURCE: Soveshchaniye po mikrotverdosti. 2d, 1963. Metody ispytaniya na mikrotverdost'. Pribory. (Methods and instruments for microhardness testing). Moscow, Izd-vo Nauka, 1965, 96-112

TOPIC TAGS: hardness, , iron, metallurgic testing machine, high temperature research, pressure measuring instrument

ABSTRACT: A general discussion of microhardness testing devices is presented. The devices are divided into four types. To type I belong those in which indentation is produced at a high temperature but the size is determined at room temperature. Type II includes those devices in which the indentation is measured at the temperature at which it is produced. Type III devices are similar to the type II ones, but include sighting attachments for precise locating of the indentations. Type IV devices are similar to those of type III but also include a mechanism for applying tensile stresses to the specimens. Five different microhardness testers are discussed (all previously described in the literature). The performance of three devices in determining microhardness of iron in the temperature range of 20--1300C is explained, and the

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ACC NR: AT6003652

experimental results are tabulated. It is concluded that the performances of the three devices are approximately the same. The equipment tested here has been described by H. Schenk, E. Schmidtmann, H. Brandis, and K. Winkler (Arch. Eisenhuettenwesen, 1958, 29, H. 10, S. 653), by M. G. Lozinskiy and V. S. Mirotvoraskiy (Ind. TsITEIN, tema 32, No. P-61-16/4. M., 1961), and by Ye. S. Berkovich (Zavodskaya laboratoriya, 1963, No. 10). It was also found that there was little or no discrepancy between microhardness determinations obtained from indentation dimensions measured at high and at room temperatures for temperatures below 1100C. It is noted that little information is available on the effect of high temperatures on the properties (especially on the shape) of microhardness indentors. Further research along these lines is in progress. Orig. art. has: 2 tables and 7 figures.

SUB CODE: /31110/SUBM DATE: 18Jun65/ ORIG REF: 003/ OTH REF: 004

Q1
Card 2/2

L 15316-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b) IJP(c)
ACC NR: AT6003654 JD/HV/GS SOURCE CODE: UR/0000/65/000/000/0148/0157

AUTHORS: Lozinskiy, M. G.; Mirotvorskiy, V. S.

ORG: None

b3
b1
B71

TITLE: Certain areas of application of the microhardness method at high temperatures

SOURCE: Soveshchaniye po mikrotverdosti. 2d, 1963. Metody ispytaniya na mikrotverdost'. Pribory. (Methods and instruments for microhardness testing). Moscow, Izd-vo Nauka, 1965, 148-157

TOPIC TAGS: hardness, metal, nickel, metal rolling, high temperature effect, recrystallization, pressure measuring instrument

ABSTRACT: The kinetics of high-temperature weakening of cold-worked, technically pure nickel was studied by the microhardness method. The specimens, originally cold-rolled at 20C, were hot-rolled at 400--900C and were subsequently hardened by water immersion. The microhardness of the specimens at 600C was determined as a function of the annealing time. The experimental procedure followed that described by M. G. Lozinskiy (Stroyeniye i svoystva metallov i splavov pri vysokikh temperaturakh. Metallurgizdat, 1963). The effect of recrystallization on the microhardness of nickel specimens rolled at 20C and 900C respectively was determined, and the experimental results are presented graphically (see Fig. 1). These results are compared with previously reported data for technical iron by the authors (Izv. AN SSSR, OTN, Metallurgiya i toplivo, 1959, No. 3).

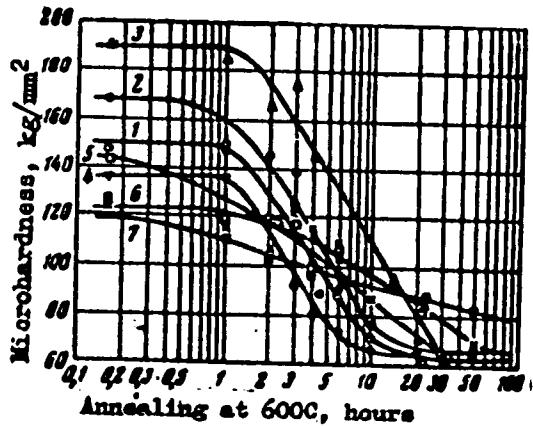
Card 1/2

L 15316-66

ACC NR: AT6003654

for tempered steel KhVG and beryllium bronze Br.B 2.4 by M. G. Lozinskiy, V. S. Mirotvorskiy, and A. G. Rakhshtadt (*Fizika metallov i metallovedeniye*, 1963, 16, vyp. 3). It is suggested that measurements of "hot" microhardness may yield valuable information on the behavior of metals and alloys at high temperatures, particularly when these metals are subjected to various stresses.

Fig. 1. Change of the high-temperature microhardness of nickel during annealing at 600°C. Preliminary treatment: 1 - rolled at 200; 2 - at 400°C; 3 - at 500°C; 4 - at 600°C; 5 - at 700°C; 6 - at 800°C; 7 - at 900°C



Orig. art. has: 7 graphs.

SUB CODE: 1311 / SUBM DATE: 1JJUN65 / ORIG REF: 007 / OTH REF: 002
Card 2/2 *SC*

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3

ARKIN, M.Ya.; MIROTVORSKIY, V.S.; NIKIFOROV, A.Ya.

Laboratory system for the deoxygenation of inert gases.
Zav. lab. 31 no.11:1418-1419 195.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3"

1. OLLE, A. YE. : MIROTVORTSEV, B. A.
2. USSR (600)
4. Fire Clay-Saratov Province
7. Report on the work carried out on the investigation of Middle Jurassic refractory clays of the Saratov Province. Izv. Glav. upr. geol. fon. no. 2 1947.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

MIROTVORTSEV, B.A.

Clay siderites in the surroundings of Krasnaya Rechka in Saratov Province. Uch.zap.SGU 65:145-147 '59. (MIRA 16:1)
(Saratov Province—Siderite)

DO NOT VORZETSEY, N.N.

KARGIN, V.A.
5(3) p. PHASE I BOOK EXPLOITATION 307/1589
Academicheskaya kniga 5558.

Khimiya velikikh molekuly oborotnyi statey (Chemistry of Large Molecules, Collection of Articles) Moscow, Izd-vo Akademiia Nauk SSSR, 1958.
529 p., (large), Akademicheskaya kniga 5558. Nauchno-populyarnaya
seriya.) 50,000 copies printed.

Compilier: G.V. Strelkovskiy; Resp. Ed.: A.V. Topchilov; Author: Academician
I.B. Savchenko; V.A. Borovskiy; Tech. Ed.:
L.B. Gerasimova.

PURPOSE: This book is intended for a wide circle of readers including those who have had no training in chemistry. It can also serve as a manual for propagandists, teachers, and journalists.

Card 1/8

Chemistry of Large Molecules (Cont.)

CONTENTS: This collection of articles reflects the trend for the future development of the Soviet chemical industry as indicated by the May Plenary session of the Central Committee of the Communist Party within the framework of the new Seven Year Plan. These articles were published in newspapers and journals. The authors scientists and industrial workers developed the theme of accelerated development of the chemical industries and sciences, with stress on the manufacture of synthetic fibers, plastics and other materials. Some of the articles were abridged, revised, or enlarged. The articles were selected to give an adequate survey of the chemistry of technology of high-molecular-weight compounds and their uses in industry, agriculture, and in the manufacture of consumer goods. Mentioned are raw materials for the production of polymers. This book belongs to the popular-science series of the Academy of Sciences. Sixty volumes are intended for future publication. No references are given.

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Card 1/8

MIROTVORTSEV, N.N.

Tasks of the shoe and leather industry during the period from
1961 to 1965. Kozh.-obuv.prom. 3 no.8:5-8 Ag '61. (MIRA 14:10)

1. Nachal'nik otdela ekonomiki i razvitiya legkoy promyshlennosti
Goskonomsoveta Soveta Ministrov SSSR.
(Shoe industry) (Leather industry)

MIROTVORTSEV, N.N.

Speed-up the expansion of the knit goods industry. Tekst.prom.
21 no.3:1-4 Mr '61. ' GKA 14:3)

1. Nachal'nik ot dela ekonomiki i razvitiya legkoy promyshlennosti
Goskonomsoveta Soveta Ministrov SSSR.
(Knit goods industry)

MIROTVORFSEV, S. R.

21042 Mirotvorfsev, S. R., Spyt khirurgii voyny na sluzhbe khirurgii m. r. no vremeni. Trudy In-ta (Kazansk. nauch.-issled. in-t ortopedii i vosstanovit. khirurgii), t. III, 1949, s. 16-23

SO: LETOPTS zhurnal STATEY - Vol. 2, Moskva, 1949

MIROTVORTSEV, Yu. I.; SHVEDKO, L.P.

Effect of methyl bromide on terbagens and the entomological fauna of
their burrows. Tez. i dokl. konf. Irk. pos. nauch.-issl. protivochum. inst.
no.1:21-22 '55. (MIRA 11:3)
(METHANE) (MARMOTS)

MIROVORTSEV, Yu. I.

Apparatus for measured dosing of methyl bromide and its introduction into burrows in the poisoning of rodents. Izv. Irk.gos. nauch.-issl. protivochum. inst. 16:244-246 '57. (MIRA 13:7)
(SPRAYING AND DUSTING EQUIPMENT)
(METHANE) (RODENT CONTROL)

NEKIPEROV, N.V.; MIROVORTSEV, Yu.I.; PLETNIKOVA, G.P.

Extermination of the marmot in Transbaikalia by means of
poisoning from automobiles. Izv.Irk.gos.nauch.-issl.protivo-
chum.inst. 19:146-151 '58. (MIRA 13:7)
(Transbaikalia--Rodent control) (Marmots)

KHVECHENKO, Ye.N.; ADALKE, Z.F.; LETYATOVA, A.P.; MIRONOVA, A.P.;
MIROVORTSEV, Yu.I.; MIRZOBALAYEV, N.T.

Detection of tub. bacilli in Mamit by Teprovsky. Zhurn. khim., edn.
i immun. 4, n°.4:1.-13. At. 1-1.

(MIRA 18:5,

1. Primorskaya zonyevaya metoda otsayevaniya.

SPIVAK, M.Ya.; ARGUDAYEVA, N.A.; NABIYEV, E.G.; CHISTOVICH, G.N.; RIVLIN, M.I.; SEMENOV, M.Ya.; KRUGLIKOV, V.M.; SHAL'NEVA, A.M.; TITROVA, A.I.; RAYKIS, B.N.; MILYAYEVA, Ye.N.; BRUDNAYA, E.I.; GODINA, I.F.; VOL'FSON, G.I.; SOSONKO, S.M.; KOLESINSKAYA, L.A.; VYSOTSKIY, B.V.; MALYKH, F.S.; MIROTVORTSEV, Yu.I.; SYCHEVSKIY, P.T.; GOPACHENKO, I.M.; KARPITSKAYA, V.M.; FETISOVA, I.A.; MARTINYUK, Yu.V.; EMDINA, I.A.

Annotations. Zhur. mikrobiol. spid. i immun. 40 no.3:128-131
Mr '63. (MIRA 17:2)

1. Iz Kemerovskogo meditsinskogo instituta i Kemerovskoy klinicheskoy bol'nitsy No.3 (for Spivak, Argudayeva). 2. Iz Kazanskogo instituta usovershenstvovaniya vrachey imeni Lenina (for Nabiyev). 3. Iz Leningradskogo kozhnogo dispansera No. 1 (for Chistovich, Rivlin). 4. Iz Rostovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii (for Semenov). 5. Iz Stavropol'skogo instituta vaktsin i syvorotok (for Kruglikov, Shal'neva, Titrova, Raykis). 6. Iz Kuybyshev'skogo instituta epidemiologii, mikrobiologii i gigiyeny i TSentral'nogo instituta usovershenstvovaniya vrachey (for Milyayeva). 7. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta zhelezno-dorozhnoy gigiyeny Glavnogo sanitarnogo upravleniya Ministerstva putey soobshcheniya i Detskoj polikliniki st. Lyublino

(Continued on next card)

SPIVAK, M.Ya.----- (continued) Card 2.

Moskovskoy zheleznoy dorogi (for Brudnaya, Godina). 8. Iz Vrachebno-sanitarnoy sluzhby Severnoy zheleznoy dorogi (for Vol'fson, Sosonko, Kolesinskaya). 9. Iz Vladivostokskogo instituta epidemiologii, mikrobiologii i gigiyeny i Primorskoy krayevoy protivochumnyoy stantsii (for Vysotskiy, Malykh, Mirotvortsev, Sychevskiy, Gopachenko). 10. Iz Yaroslavskogo meditsinskogo instituta (for Karpitskaya). 11. Iz Aralmorskoy protivochumnyoy stantsii (for Fetisova). 12. Iz L'vovskogo instituta epidemiologii, mikrobiologii i gigiyeny (for Martynyuk, Endina).

VYDOLTSKIY, R.V., MALYKH, E.S., MIROTYCHOV, YU.I., KALININA, M.
SYCHEVSKIY, F.T.

Data of a survey on leptospirals in murine rodents in Ussuriisk
and Pogranichnyi Districts of the Maritime Territory. Tracy
VladIFMG no.2:60-68 '62.

M. V. D.

i. Iz Vladivostotskogo nauchno-issledovatel'skogo instituta
epidemiologii, mikrobiologii i gigieny i Primorskoy krayevoy
protivochumnoy stantsii.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3

MOSCOW, RUSSIA, NEAR KALININGRAD, RUSSIA

Report of activities of Soviet agents in the Moscow
area pertaining to the Treaty of Mutual Nonaggression.

1. The following ~~key~~ report is attached.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3"

L 20313-66 EWT(1)/T JK

ACCESSION NR: AP5011269

UR/0016/65/000/004/0012/0013

AUTHOR: Khveshchenko, Ye. N.; Padalko, Z. F.; Devyatova, A. P. //
Rodionova, A. P.; Mirotvortsev, Yu. I.; Mirgorodskiy, N. T.

TITLE: Tularemia detection in Primorskiy kray

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii,
no. 4, 1965, 12-13

TOPIC TAGS: man, tularemia, Primorskiy kray, serologic test,
natural focus, rodent, tick

ABSTRACT: The first case of tularemia in Primorskiy Kray was reported in 1963 in the Ussurisk district, but no evidence of tularemia natural foci has been found to date by the Primorskiy Antiplague Station. On the basis of clinical symptoms, the case of a 56 yr old patient, a native of the area, was diagnosed as an eye-bubonic form of tularemia. The patient's tularin intradermal test proved positive and agglutination reaction was markedly positive with a titer of 1:400. A tularemia culture was not isolated. The patient was hospitalized in an infectious disease hospital and treated with

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L. 313-66

ACCESSION NR: AP5011269

streptomycin. The patient was reexamined 3 mos after recovery at which time the agglutination reaction titer was 1:3200. It is assumed that the infection was transmitted through the water of the Lyuchikheza River in which the patient frequently washed. Intradermal tularin tests administered to village residents disclosed positive reactions in 18 persons, two of whom may be considered infected. The presence of various rodents and ticks in the area indicate that the extensive bacteriological investigation of the Antiplague Station should be continued to determine the natural foci of tularemia.

Orig. art. has: None.

ASSOCIATION: Primorskaya krayevaya protivochumnaya stantsiya
(Primorskiy Kray Antiplague Station)

SUBMITTED: 02Mar64

ENCL: 00

SUB CODE: LS

NR REF Sov: 000

OTHER: 000

Card 2/2 BK

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134610002-3"

MIROVORTSEV, Yu.K. (Moscow)

From the history of therapeutic physical education in Russia in the
19th century. Sov.med. 18 no.4:45-47 Ap '54. (MLRA 7:5)
(Physical therapy)

MIROTVORTSEV, Yu.K. (Moskva)

History of physical exercise in water used as a therapeutic
medium. Vop.kur.fizioter. i lech.fiz.kul't no.2:66-70 Ap-Je
'55.

(MLRA 8;8)

(HYDROTHERAPY, history
in Russia)

MIROTVORTSEV, Yu.K.; SHAPOSHNIKOV, P.K.

Two hundred and fifty years of service to the people. Izobr.v
SSSR 2 no.12:39-42 D '57. (MIRA 10:12)
(Moscow--Hospitals, Military--History)

MIROTVORTSEV, Yu.K., polkovnik med. slushby

Moscow military hospital and its role in the development of Russian military medicine; 250th anniversary of the N.N. Burdenko Central Military Hospital. Voen.-med.zhur. no.11:81-88 N '57. (MIRA 11:4)
(HOSPITALS,

N.N. Burdenko Central Military Hosp. (Eng)
(MEDICINE, MILITARY AND NAVAL,
same)

MIROTVORTSEV, Yu.K., podpolkovnik meditsinskoy sluzhby

"Physical culture for the middle aged" ed. I.M.Sarkisova-Serrazini.
Reviewed by IU.K.Mirotvortsev. Vop.kur., fizioter. i lech.fiz.
kul't. ?? no.5:88-90 S-O '57. (MIRA 11:2)
(PHYSICAL CULTURE) (MIDDLE AGE)
(SARKISOVA-SERAZINI, I.M.)

MIROTVORTSEV, Yu.K., polkovnik meditsinskoy sluzhby; UL'YANOV, Ye.F.
polkovnik meditsinskoy sluzhby

Twelfth International Congress on Sports Medicine. Voen.-med.
zhur.no.8:93-96 Ag'58. (MIRA 16:7)
(SPORTS MEDICINE—CONGRESSES)

MIROTVORTSEV, Yu.K.

Role of the Moscow Military Hospital in cementing the cooperation
of Russian and Ukrainian medical personnel. Vrach.delo. no.10:
1099-1101 0 '58 (MIRA 11:11)

1. Glavnyy voyennyy gosspital' imeni akademika N.N. Burdenko.
(UKRAINE--MEDICINE)
(MOSCOW--HOSPITALS, MILITARY)

SHAFOSHNIKOV, P.K., polkovnik meditsinskoy sluzhby; MIROVORTSEV, Yu.K.,
polkovnik meditsinskoy sluzhby

Combination bath for hydrogymnastics and underwater massage. Voen.-
med. zhur. no. 1:87 Ja '6C. (MIRA 14:2)
(HYDROTHERAPY--EQUIPMENT AND SUPPLIES)

MIROTVORTSEV, Yu.K. (Moskva)

Peter the First and physical methods of treatment. Vop. kur. fizioter.
i lech. fiz. kul't. 25 no. 3:257-258 My-Je '60. (MIRA 14-4)
(THERAPEUTICS, PHYSIOLOGICAL)

MIROTVORTSEV, Yu.K.; SHAPOSHNIKOV, P.K.

History of the application of physical methods of treatment at the Burdenko Main Military Hospital; on the 250th anniversary of the hospital. Vop. kur., fizioter. i lech. fiz. kul't. 26 no.6:547-550 (Mi A 15:1) N-D '61.

1. Iz glavnogo voyennogo gospitalya imeni N.N.Burdenko (nachal'nik - general-mayor meditsinskoy sluzhby L.I.Lyalin).
(MOSCOW HOSPITALS, MILITARY,
(PHYSICAL THERAPY)

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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134610002-3"

MIROTVORTSEVA, K.S., kandidat meditsinskikh nauk

Problem of the treatment of rectal prolapse. Khirurgiia no.3:55-57
Mr '54. (MLRA 7:5)

1. Iz kliniki khirurgii detskogo vozrasta (dir. - prof. N.V.Zakharov) Saratovskogo meditsinskogo instituta.
(RECTUM, diseases, prolapse, surg.)

MIROTVORTSEVA, K.S.

Treatment of thermal burns in children. Vest.khir.76 no.8:68-71
S '55. (MLRA 8:11)

1. Is kafedry khirurgii detskogo vozrasta--zav.--prof. N.V.Zakharov
Saratovskogo meditsinskogo instituta. Leningrad, Nevskiy pr. 63,
kv.15.

(URNS, in inf. and child
ther.)

MIROTVORSEVA, K.S., kandidat meditsinskikh nauk (Leningrad, Nevskiy pr. 60, kv.15)

Angiospastic visceral infarcts following surgery for stomach cancer [with summary in English, p.158] Vest.khir.78 no.3:42-47 Mr '57.
(MLB 10:6)

1. Iz klinicheskogo otdeleniya Akademii meditsinskikh nauk SSSR (nauchn. rukovod. - prof. A.V.Mel'nikov).

(STOMACH NEOPLASMS, surg.

postop. angiospastic visceral infarcts (Eng))

(INFARCTION, etiol. & pathogen.

angiospastic visceral infarcts caused by surg. for stomach cancer (Eng))

MIROVONISHVILI, K.S., kand.med.nauk (Leningrad, Nevezkiy pr., 4,63, kv.15)

Surgical indications in malignant cancer in myocardial infarct and
myocardial (with summary in English). Vest.khir. '90 no.5:44-49
My '94
(MIRA 11:7)

1. Iz klinicheskogo otdeleniya AMN SSSR (nauchnyy rukovoditel' -
prof. A.Y. Mel'nikov).

(STOMACH NEOPLASMS, complications,
angina pectoris & myocardial infarct, surg. indic. (Rus))

(ANGINA PECTORIS, complications,

cancer of stomach, surg. indic. (Rus))

(MYOCARDIAL INFARCT, complications,

same (Rus))

AMINEV, A.M., prof.; BEREZOV, Ye.L., prof.; BISENKOV, N.P., kand. med. nauk; BRAYTSEV, V.R., prof.; DEYNEKA, I.Ya., prof.; DVYSKIN, Ye.A., kand. med. nauk KAZANSKY, V.I., prof.; KARAVANOV, G.G., prof.; LEVIN, M.M., prof.; MAKSIMENKOV, A.N., prof.; MAYAT, V.S., prof.; NAPALKOV, P.N., prof.; ROZANOV, B.S., prof.; RUSANOV, A.A., prof.; RUSANOV, G.A., kand. med. nauk; FILATOV, A.N., prof.; CHUKHRIYENKO, D.P., prof.; SHILOVTSEV, S.P., prof.; PETROVSKIY, B.V., prof., otv. red.; MEL'NIKOV, A.V., prof., red. toma; SUVOROVA, T.A., dots., red.; MIROTVORTSEVA, K.S., red.; KULEVA, M.S., tekhn. red.

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i.e. Organobiotikale (Isplyayushchiy sovremennoe zavedlyayushchego -
B.D.Kaufman) Institute onkologii AMN SSSR (dir. - deystviteleynyy
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13-15 '62. (MIR it:1)
(Apartment houses)

10(5)
28(1)✓

80270

S/118/60/000/04/005/023
D001/D006

AUTHORS: Gozenbuk, L.G., Kopelovich, A.P., Klimovitskiy, M.D.,
and Mirov, B.M., Engineers

TITLE: Automatic Control of the Heating Furnaces in Rolling
Mills ✓

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1960,
Nr 4, pp 23-25 (USSR)

ABSTRACT: The Tsentral'noye proyektno-konstruktorskoye byuro
(Central Project-Design Bureau) of Glavproyektmon-
tazhavtomatika has developed a system (Fig 3) for
controlling the heating conditions of ingots in con-
tinuous furnaces. The work was performed on Nr 3
continuous furnace in mill 1450 at Magnitogorskiy
metallurgicheskiy kombinat (Magnitogorsk Metallurgical
Combine). This furnace heats slabs prior to rolling
in the continuous sheet rolling mill. The area of

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D001/D006

Automatic Control of the Heating Furnaces in Rolling Mills

the furnace floor is 135² and the length of the furnace 24.85 m. The welding and soaking zones are respectively heated by 9500 kilocalories per kilogram gas-mazout and 2,230 kilo calories per normal cubic meter gas. Air heating is performed in a ceramic recuperator. The Central Project-Design Bureau studied the following problems: determining the "pulse" which continuously characterizes the productivity of the furnace; determining the heat quality of metal in the furnace; determining the possibility of improving control of the combustion processes in the furnace zones; the rational choice of means of control according to the dynamic properties of the object. The two "pulses" selected were a) the relationship between temperature in the initial stage of the continuous zone and the productivity of the furnace (Fig 1) and b) the relationship between rolling temperature after the first

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D001/D006

Automatic Control of the Heating Furnaces in Rolling Mills

finishing group stand and the heating charge of the upper and lower welding zones (Fig 2). The resultant control system is described in detail. There are 2 graphs and 1 diagram.

Card 3/3

ANASTASIYEV, B.I., inzh.; MIROV, B.M., inzh.; SAPOZHNIKOV, V.A., inzh.;
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Automatic measurement of the length and output of pipes. *Mekh.-i*
avtom.proizv. 16 no.8:5-7 Ag '62. (MIRA 15:9)
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ANASTASIYEV, B.I., inzh.; YEREMIN, V.V., inzh.; KOZLOV, D.T., inzh.; MIROV,
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Transmission of discrete information for converter smelting
control. Mekhanika i avtom. proizv. 19 no.4:49-50 Ap '65.
(MIRA 18:6)

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 408 - I

BOOK

Authors: BYCHKOV, D. V., Prof., Doc. of Tech. Sci., and
MIROV, M. O., Engineer
Full Title: ENGINEERING MECHANICS, PART I. THEORETICAL MECHANICS
Transliterated Title: Tekhnicheskaya mekhanika, Chast' I.
Teoreticheskaya mekhanika

Publishing Data

Originating Agency: None
Publishing House: State Publishing House of Construction and
Architectural Literature
Date: 1953 No. pp.: 280 No. of copies: 30,000
Editorial Staff
Editor: Afanas'yev, A. M., Kand. Tech. Ed.: None
of Eng. Sci.
Editor-in-Chief: None Appraisers: Vladimirsk Con-
struction Tekhnikum, and
Terzibash'yants, S. G.,
Dotsent, Kand. of Eng. Sci.
Others: The authors express thanks to Yablonovskiy, Z. F. for
appraising this book.

Text Data

Coverage: This is Part I, "Theoretical Mechanics", of a textbook on
1/3

Tekhnicheskaya mekhanika, Chast' I
Teoreticheskaya mekhanika

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engineering mechanics. The text is illustrated with a large number of examples, which facilitate its study. In the introduction the author gives an outline of the development of theoretical mechanics and mentions names of scientists who worked in this field. Diagrams, graphs, etc.

This is a good textbook. To follow it some knowledge of the differential calculus is necessary.

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Tekhnicheskaya mekhanika, Chast' I
Teoreticheskaya mekhanika

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Ch. II	Bases of the Dynamics of Systems of Rigid Bodies	232-242
Ch. III	Work and Power	243-257
Ch. IV	Kinematic Energy and Momentum	258-276

Purpose: This is a textbook approved by the Administration of Educational Institutions of the Ministry of Construction of the USSR for construction tekhnikums.

Facilities: None

No. of Russian and Slavic References: None

Available: Library of Congress.

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MIROL AN 0

BYCHKOV, D.V., doktor tekhn.nauk, prof.; MIROV, M.O.; LUNEV, Vasilii Ivanovich, kand.tekhn.nauk, dots.; IVANOV, Grigoriy Mikhaylovich, kand.tekhn.nauk.; PAVLOV, B.P., prof., doktor tekhn.nauk, retsenzent; KOBATS, L.G., kand.tekhn.nauk, retsenzent; UJOVENKO, S.A., inzh., retsenzent; BOGOMOLOV, G.I., inzh., retsenzent; BORODINA, I.S., red. izd-va; KAPLAN, M.Ya., red.izd-va; PERSON, M.N., tekhn. red.; UL'KINA, Ye.A., tekhn.red.

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(Mechanics, Applied) (Strength of materials)